

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number  
WO 2005/009351 A3

(51) International Patent Classification<sup>7</sup>: A01N 65/00,  
A61K 35/78

(21) International Application Number:  
PCT/US2004/022330

(22) International Filing Date: 13 July 2004 (13.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/488,492 17 July 2003 (17.07.2003) US

(71) Applicant (for all designated States except US): SANTÉ  
INTERNATIONAL, INC. [US/US]; 111 West Second  
Street, Suite 4000, Jamestown, NY 14701 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DJANG, Arthur;  
Santé International, Inc., 111 West Second Street, Suite  
400, Jamestown, NY 14701 (US).

(74) Agent: NELSON, Bud, M.; 8112 Greywinds Drive,  
Raleigh, NC 27615 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

(88) Date of publication of the international search report:  
28 April 2005

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: DIETARY SUPPLEMENT FOR PROMOTING CONTROL OF BLOOD-SUGAR LEVELS AND ASSOCIATED  
PATHOLOGY IN TYPE 2 DIABETICS

(57) Abstract: Provided is an herbal extract-based composition comprising an extract of Gynostemma pentaphyllum, an extract of Crataegus pinnatifidia (hawthorn), an extract of Camellia sinensis (green tea), and an extract of Momordica charantia (bitter melon). The composition may further comprise an extract of mulberry (Morus species). Also provided is a process for preparing a herbal extract-based composition which comprises separately extracting each of hawthorn, green tea, Gynostemma pentaphyllum, mulberry, and bitter melon; drying extraction eluates obtained from the extracting of each of the herbal components to obtain organic residues in forming a hawthorn extract powder, green tea extract powder, a Gynostemma pentaphyllum extract powder, a mulberry extract powder, and a bitter melon powder; and combining the green tea extract powder, the Gynostemma Pentaphyllum extract powder, the hawthorn extract powder, the mulberry extract powder, and the bitter melon powder in desired proportions to form the herbal extract-based composition which, when taken orally, has health-promoting effects including anti-diabetic effects that include, but are not limited to, decreasing visceral fat, reducing hyperglycemia, and reducing the occurrence and severity of diabetic complications, associated with type 2 diabetes.

WO 2005/009351 A3